# **DNL Probability**

What is the theoretical probability that a fair coin lands on heads?         Dave flipped a coin         Dave flipped a coin 20 times and got heads on 8 of the flips.         Based on Dave's results, what is the experimental probability of the coin landing on heads?         Based on Dave's results, what is the experimental probability of the coin landing on heads?         Based on Dave's results, what is the experimental results the same?         Dave's coin is obviously unfair.         Results from an experiment don't always match the theoretical results, but they should be close after a large number of trials.         Dave's on is obviously unfair.         Results from an experiment don't always match the theoretical results, but they should be close after a large number of trials.         Dave's on thirds flipping a coin         Dave continues flipping is coin ounli he has 100 total flips, and the coin shows heads on 47 of those flips.         Based on these results, what is the experimental probability of the coin landing on heads?         (Heads) =         Question 5 Flipping a coin         The experimental probability after Dave continued flipping the coin?         The experimental probability after away from the theoretical probability after more flips.         Dave's flop of a die         Varie die has 6 faces numbered 1 through 6 that are each equally likely to show when the die is rolled.         Varie die has 6 faces numbered 1 through 6 that are each equally likely to show when the di	<i>Question 1</i> Flipping a coin	/ 1
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Question 8	According to the theoretical probability, how many rolls should Dave expect to show a 1?	
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Question 8		
	Question 8	/1

We draw at random a ball in the following bag. Match the events to the probabilities.



Draw a red ball	1/8
Draw a green ball	0
Draw a black ball	3/8
Draw a blue ball	1/2

/1

/1

/1

/1

/1

/1

/1

# **DNL Probability**

Question	9
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Win to the national lottery.	unlikely
Win to heads and tails.	Impossible
Get 13 with two ordinnary dice.	Likely
Get a vowel by drawing a random letter from the alphabet	Very likely
Get a consonant by drawing a random letter from the alphabet	One chance out of two
Win or lose to the national lottery.	Certain
The math teacher knows his multiplication tables	Very unlikely

### Question 10

Check off the correct answer(s). A probability is

- Chance
- One chance out of two.
- A percentage

An outcome of a random experiment.

A number between 0 and 1.

# Question 11

When all the outcomes of a random experiment have the same probability of being realized, we say that it is a situation of ..... (without capital letters)

### Question 12

How many outcomes are there in the following random experiment: Randomly draw a ball into the bag shown below and look at the colour obtained.



## Question 13

In a class of 30 students, there are 17 girls and 13 boys. I choose a student at random and I note in which group it belongs. How many outcomes are there to this experiment?

### Question 14

In a class of 30 students, there are 17 girls and 13 boys. I choose a student at random. What is the probability that it is a girl?

(Answer given as fraction without space example 3/4)

#### Question 15

In a group, there are 7 girls and 4 boys. I choose a random person. What is the probability that it is a girl?

(Answer given as fraction without space example 3/4)

/1

/1

/1

/1

/1

/1

# **DNL Probability**

#### Question 16

In the following script, what is the probability that the sprite says " I win"?

(Answer given as fraction without space example 3/4)

if 📢	pick random 1 to 10 = 3 then
say	I win! for 2 secs
else	
say	I lose! for 2 secs

# Question 17

A game announces "1 in 4 chance of winning". If I play 4 times, then I'm sure to win.

◯ Wrong

Right

### Question 18

A game ann	nounces "1 in -	4 chance of	winning" Wha	t is the pro	bability of lo	sing? (Answe	r given as	s fraction v	without space	example: 1	/5)

## Question 19

In my standard deck of 52 playing cards I draw a card at random and then, **without putting it back**, I draw a second card always randomly. In the first draw I got the jack of diamonds. What is the probability of getting a spades at the second draw? (Answer given as a fraction without space example 1/5)

# Question 20

In my standard deck of 52 cards I draw a card at random and then, **without putting it back**, I draw a second always randomly. In the first draw I got the 8 of clubs. What is the probability of getting a clubs at the second draw? (Answer given as a fraction without space example 1/5)

### Question 21

Alice, Bob and Chuck each have a bag containing marbles. Everyone randomly draws a ball from his bag. The contents of the bags are as follows: Alice's bag: 5 red Bob's bag: 10 red and 30 black Chuck bag: 10 red and 3 black. Who is most likely to shoot a red ball? Chuck

O Bob

# Question 22

I draw a card in a standard deck of 52 playing cards. Match the events that are mutually exclusive (or disjoint).

Draw a diamonds Draw an ace or a Jack. Draw a face card. Draw a king. Draw a clubs Draw a Jack. Draw a 10 or an ace. Draw the King of diamonds /1